SEQUENCE LISTING

<110> Gaynor, Bruce
       Diamond, Betty
       Scharff, Matthew
       Valadon, Philippe

<120> PEPTIDES FOR THE TREATMENT AND DIAGNOSIS
       OF SYSTEMIC LUPUS ERYTHEMATOSUS

<130> 96700/451

<140> US 08/833,838

<141> 1997-04-10

<150> US 08/531,832

<151> 1995-09-20

<160> 24

<170> PatentIn version 3.0

<210> 1

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> synthetic peptide that binds R4A

<400> 1

Asp Trp Glu Tyr Ser Val Trp Leu Ser Asn
1   5   10

<210> 2

<211> 5

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(5)

<223> peptide that inhibits binding of R4A to calf thymus dsDNA;
       X at positions 1 and 3 may be Asp or Glu;
       X at position 5 may be Gly or Ser

<400> 2

Xaa Trp Xaa Tyr Xaa
1   5

<210> 3

<211> 6

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(6)

<223> peptide that binds human anti-dsDNA monoclonal antibodies;
      X at positions 1 and 4 may be any amino acid

<400> 3

Xaa Gly Trp Xaa Arg Val
1   5

<210> 4

<211> 6

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(6)

<223> peptide that binds human anti-dsDNA monoclonal antibodies;
      X at positions 1, 3, and 6 may be any amino acid

<400> 4

Xaa Trp Xaa Tyr His Xaa
1   5

<210> 5

<211> 6

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(6)

<223> peptide that binds human anti-dsDNA monoclonal antibodies;
      X at positions 1 and 3 may be Asp or Glu

<400> 5

Xaa Gly Xaa Trp Pro Arg
1   5

<210> 6

<211> 25

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(25)

<223> amino terminus used to construct decapeptide library;
      X at positions 7-16 may be any amino acid

<400> 6

Ala Asp Gly Ser Gly Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1   5   10   15

Gly Ala Pro Ser Gly Ala Glu Thr Val
            20   25

C4

<210> 7

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> peptide synthesized in the Macromolecular Analysis Facility at
      Albert Einstein College of Medicine

<400> 7

Arg His Glu Asp Gly Asp Trp Pro Arg Val
1   5   10

<210> 8

<211> 10

<212> PRT

<210> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
a decapeptide library with R4A

<400> 8

Trp Cys Glu Ala Asp Tyr Gly Arg Cys Pro
1   5   10

<210> 9

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
a decapeptide library with R4A

C4

<400> 9

Leu Tyr Phe Glu Asp Tyr Arg Cys Glu Leu
1   5   10

<210> 10

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
a decapeptide library with R4A

<400> 10

Asp Trp Asp Tyr Gly Ala Leu Met Trp Ala
1   5   10

<210> 11

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
a decapeptide library with R4A

<400> 11

Tyr Ser Asp Trp Asp Tyr Ser Glu Gly Leu
1   5   10

<210> 12

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
a decapeptide library with R4A

<400> 12

Ser Thr Glu His Ser Glu Ala Asp Leu Trp
1   5   10

<210> 13

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
a decapeptide library with R4A

<400> 13

Val Pro Val Cys Asp Trp Glu Leu Asn Cys
1   5   10

<210> 14

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
a decapeptide library with R4A

<400> 14

Phe Ser Asp Cys Tyr His Ser Gly Cys Pro
1   5   10

<210> 15

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
a decapeptide library with 52b3

<400> 15

Leu Leu Asp Asp Gly Phe Trp Pro Arg Val
1   5   10

<210> 16

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
a decapeptide library with 52b3

<400> 16

Cys Gly Val Asp Gly Arg Trp Pro Arg Trp
1   5   10

<210> 17

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
      a decapeptide library with 52b3

<400> 17

Ser Leu Ile Ser Asp Glu Trp Pro Arg Trp
1   5   10

<210> 18

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
      a decapeptide library with 52b3

<400> 18

Asp Gly Glu Trp Pro Arg Glu Gly Trp Ser
1   5   10

<210> 19

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
      a decapeptide library with 52b3

<400> 19

Glu Asp Leu Glu Gly Glu Trp Pro Met Arg
1   5   10

<210> 20

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
      a decapeptide library with 52b3

<400> 20

Ser Leu Asp Glu Leu Asp Trp Asp Ser Met
1   5   10

C4

<210> 21

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
      a decapeptide library with 52b3

<400> 21

Thr Trp Cys Pro Val Trp Ile Trp Asp Cys
1   5   10

<210> 22

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
a decapeptide library with 52b3

<400> 22

Val Leu Ile Cys Trp Asp Gly Cys Glu Thr
1   5   10

<210> 23

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
a decapeptide library with 52b3

<400> 23

Trp Asp Cys Tyr Val Cys Arg Leu Glu Leu
1   5   10

<210> 24

<211> 10

<212> PRT

<213> artificial sequence

<220>

<221> peptide

<222> (1)..(10)

<223> randomly-selected sequence obtained by biopanning
a decapeptide library with 52b3

<400> 24

Ser Cys Tyr Gln Ser Tyr Pro Gly Glu Cys
1   5   10